

Product datasheet for PH300374

Cytochrome C Oxidase subunit VIc (COX6C) (NM_004374) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	COX6C MS Standard C13 and N15-labeled recombinant protein (NP_004365)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200374
Predicted MW:	8.8 kDa
Protein Sequence:	>RC200374 protein sequence Red =Cloning site Green =Tags(s) MAPEVLPKPRMRGLLARRLRNHMAVAVFLSLGVAALYKFRVADQRKKAYADFYRNYDVMKDFEEMRKAGI FQSVK TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_004365
RefSeq Size:	921
RefSeq ORF:	225
Locus ID:	1345
UniProt ID:	P09669 , A0A024R9B7
Cytogenetics:	8q22.2



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Summary:

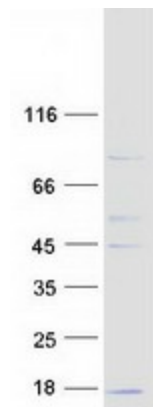
Cytochrome c oxidase, the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may be involved in the regulation and assembly of the complex. This nuclear gene encodes subunit VIc, which has 77% amino acid sequence identity with mouse subunit VIc. This gene is up-regulated in prostate cancer cells. A pseudogene has been found on chromosomes 16p12. [provided by RefSeq, Jul 2010]

Protein Families:

Transmembrane

Protein Pathways:

Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:

Coomassie blue staining of purified COX6C protein (Cat# [TP300374]). The protein was produced from HEK293T cells transfected with COX6C cDNA clone (Cat# [RC200374]) using MegaTran 2.0 (Cat# [TT210002]).